

## SEQUENCE SUBMISSION

SEQ ID NO: 1 provides primate IL-1 $\delta$  nucleotide sequence.  
 SEQ ID NO: 2 provides primate IL-1 $\delta$  polypeptide sequence.  
 5 SEQ ID NO: 3 provides primate IL-1 $\epsilon$  nucleotide sequence.  
 SEQ ID NO: 4 provides primate IL-1 $\epsilon$  polypeptide sequence.  
 SEQ ID NO: 5 provides primate IL-1 $\alpha$  polypeptide sequence.  
 SEQ ID NO: 6 provides primate IL-1 $\beta$  polypeptide sequence.  
 10 SEQ ID NO: 7 provides primate IL-1RA polypeptide sequence.  
 SEQ ID NO: 8 provides rodent IL-1 $\gamma$  (IGIF) polypeptide sequence.  
 SEQ ID NO: 9 provides primate IL-1 $\gamma$  (IGIF) polypeptide sequence.  
 SEQ ID NO: 10 provides rodent IL-1 $\epsilon$  polypeptide sequence.  
 SEQ ID NO: 11 provides rodent IL-1 $\delta$  polypeptide sequence.  
 15 SEQ ID NO: 12 provides primate IL-1R6 nucleotide sequence.  
 SEQ ID NO: 13 provides primate IL-1R6 polypeptide sequence.  
 SEQ ID NO: 14 provides rodent IL-1R6 nucleotide sequence.  
 SEQ ID NO: 15 provides rodent IL-1R6 polypeptide sequence.

20 <110> Debets, Johannes E.M.A.  
 Timans, Jacqueline C.  
 Bazan, J. Fernando  
 Kastelein, Robert A.

25 <120> Mammalian Cytokines; Receptors; Related Reagents and  
 Methods

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 Homo sapiens

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 Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu His

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60





tat cca gag gct ctt gag caa ggc aga ggg gat ccc att tat ttg gga 300  
 Tyr Pro Glu Ala Leu Glu Gln Gly Arg Gly Asp Pro Ile Tyr Leu Gly  
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atc cag aat cca gaa atg tgt ttg tat tgt gag aag gtt gga gaa cag 348  
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ccc aca ttg cag cta aaa gag cag aag atc atg gat ctg tat ggc caa 396  
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ccc gag ccc gtg aaa ccc ttc ctt ttc tac cgt gcc aag act ggt agg 444  
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acc tcc acc ctt gag tct gtg gcc ttc ccg gac tgg ttc att gcc tcc 492  
 Thr Ser Thr Leu Glu Ser Val Ala Phe Pro Asp Trp Phe Ile Ala Ser  
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 Ser Lys Arg Asp Gln Pro Ile Ile Leu Thr Ser Glu Leu Gly Lys Ser  
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 Homo sapiens

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Gln Val Trp Thr Leu Gln Gly Gln Asn Leu Val Ala Val Pro Arg Ser

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Asp Ser Val Thr Pro Val Thr Val Ala Val Ile Thr Cys Lys Tyr Pro
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5  Glu Ala Leu Glu Gln Gly Arg Gly Asp Pro Ile Tyr Leu Gly Ile Gln
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10 Asn Pro Glu Met Cys Leu Tyr Cys Glu Lys Val Gly Glu Gln Pro Thr
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    Leu Gln Leu Lys Glu Gln Lys Ile Met Asp Leu Tyr Gly Gln Pro Glu
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15  Pro Val Lys Pro Phe Leu Phe Tyr Arg Ala Lys Thr Gly Arg Thr Ser
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    Thr Leu Glu Ser Val Ala Phe Pro Asp Trp Phe Ile Ala Ser Ser Lys
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      20              25              30
45 Asn Leu Asp Glu Ala Val Lys Phe Asp Met Gly Ala Tyr Lys Ser Ser
      35              40              45
    Lys Asp Asp Ala Lys Ile Thr Val Ile Leu Arg Ile Ser Lys Thr Gln
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      85              90              95
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DEBETS, et al. 110 DX01073K

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25 Gly Gln Asp Met Glu Gln Gln Val Val Phe Ser Met Ser Phe Val Gln  
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Gly Glu Glu Ser Asn Asp Lys Ile Pro Val Ala Leu Gly Leu Lys Glu  
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Lys Asn Leu Tyr Leu Ser Cys Val Leu Lys Asp Asp Lys Pro Thr Leu  
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35    Gln Leu Glu Ser Val Asp Pro Lys Asn Tyr Pro Lys Lys Lys Met Glu  
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Lys Arg Phe Val Phe Asn Lys Ile Glu Ile Asn Asn Lys Leu Glu Phe  
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40    Glu Ser Ala Gln Phe Pro Asn Trp Tyr Ile Ser Thr Ser Gln Ala Glu  
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Homo sapiens

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 5 Pro Asn Val Asn Leu Glu Glu Lys Ile Asp Val Val Pro Ile Glu Pro  
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 His Ala Leu Phe Leu Gly Ile His Gly Gly Lys Met Cys Leu Ser Cys  
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 10 Val Lys Ser Gly Asp Glu Thr Arg Leu Gln Leu Glu Ala Val Asn Ile  
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 Thr Asp Leu Ser Glu Asn Arg Lys Gln Asp Lys Arg Phe Ala Phe Ile  
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 15 Arg Ser Asp Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro  
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 20 Gly Trp Phe Leu Cys Thr Ala Met Glu Ala Asp Gln Pro Val Ser Leu  
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 Asp Gln Val Leu Phe Val Asp Lys Arg Gln Pro Val Phe Glu Asp Met  
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 45 Thr Asp Ile Asp Gln Ser Ala Ser Glu Pro Gln Thr Arg Leu Ile Ile  
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 Tyr Met Tyr Lys Asp Ser Glu Val Arg Gly Leu Ala Val Thr Leu Ser  
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 Val Lys Asp Ser Lys Met Ser Thr Leu Ser Cys Lys Asn Lys Ile Ile  
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 Asp Leu Ile Phe Phe Gln Lys Arg Val Pro Gly His Asn Lys Met Glu  
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 60 Phe Glu Ser Ser Leu Tyr Glu Gly His Phe Leu Ala Cys Gln Lys Glu

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Asp Asp Ala Phe Lys Leu Ile Leu Lys Lys Lys Asp Glu Asn Gly Asp  
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25 Met Thr Asp Ser Asp Cys Arg Asp Asn Ala Pro Arg Thr Ile Phe Ile  
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Ser Val Lys Cys Glu Lys Ile Ser Thr Leu Ser Cys Glu Asn Lys Ile  
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35 Ile Ser Phe Lys Glu Met Asn Pro Pro Asp Asn Ile Lys Asp Thr Lys  
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Ser Asp Ile Ile Phe Phe Gln Arg Ser Val Pro Gly His Asp Asn Lys  
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40 Met Gln Phe Glu Ser Ser Ser Tyr Glu Gly Tyr Phe Leu Ala Cys Glu  
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45 Lys Glu Arg Asp Leu Phe Lys Leu Ile Leu Lys Lys Glu Asp Glu Leu  
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 Gly Val Gln Arg Pro Met Ser Cys Leu Phe Cys Thr Lys Asp Gly Glu  
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 Lys Lys Glu Pro Val Lys Ala Ser Leu Phe Tyr His Lys Lys Ser Gly  
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Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Ser Pro Glu Ala Asp Gln  
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gtc aca gca gat gga tgc aag gac att ttt atg aaa aat gag ata ctt 96  
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tca gca agc cag cct ttt gct ttt aat tgt aca ttc cct ccc ata aca 144  
 Ser Ala Ser Gln Pro Phe Ala Phe Asn Cys Thr Phe Pro Pro Ile Thr  
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tct ggg gaa gtc agt gta aca tgg tat aaa aat tct agc aaa atc cca 192  
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ttg ttt ctc ccc atg gaa tgg ggg gac tca gga gtc tac caa tgt gtt 288  
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ata aag ggt aga gac agc tgt cat aga ata cat gta aac cta act gtt 336  
 Ile Lys Gly Arg Asp Ser Cys His Arg Ile His Val Asn Leu Thr Val  
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ttt gaa aaa cat tgg tgt gac act tcc ata ggt ggt tta cca aat tta 384  
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15	gcc gtg gcc aat gtc atc gat gaa aac gtt aag ctg tgc agg agg ctg Ala Val Ala Asn Val Ile Asp Glu Asn Val Lys Leu Cys Arg Arg Leu	435	440	445	1344
20	att gtc att gtg gtc ccc gaa tcg ctg ggc ttt ggc ctg ttg aag aac Ile Val Ile Val Val Pro Glu Ser Leu Gly Phe Gly Leu Leu Lys Asn	450	455	460	1392
25	ctg tca gaa gaa caa atc gcg gtc tac agt gcc ctg atc cag gac ggg Leu Ser Glu Glu Gln Ile Ala Val Tyr Ser Ala Leu Ile Gln Asp Gly	465	470	475	1440
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35	atg cca gag tca att cag tac atc aaa cag aag cat ggt gcc atc cgg Met Pro Glu Ser Ile Gln Tyr Ile Lys Gln Lys His Gly Ala Ile Arg	500	505	510	1536
40	tgg cat ggg gac ttc acg gag cag tca cag tgt atg aag acc aag ttt Trp His Gly Asp Phe Thr Glu Gln Ser Gln Cys Met Lys Thr Lys Phe	515	520	525	1584
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Ser Ala Phe His Ser Thr Glu Thr Ile Val Asp Gly Lys Leu Tyr Asp  
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 5 Ala Tyr Val Leu Tyr Pro Lys Pro His Lys Glu Ser Gln Arg His Ala  
 385 390 395 400  
 Val Asp Ala Leu Val Leu Asn Ile Leu Pro Glu Val Leu Glu Arg Gln  
 405 410 415  
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 Ala Val Ala Asn Val Ile Asp Glu Asn Val Lys Leu Cys Arg Arg Leu  
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Gln Asn

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 50 Rattus sp.

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60

ctt ttt gtg gca gca ggt aac tgt act gat gtc tat atg cac cat gag 96

	Leu	Phe	Val	Ala	Ala	Gly	Asn	Cys	Thr	Asp	Val	Tyr	Met	His	His	Glu	
				20					25					30			
5	atg	att	tca	gag	ggc	cag	cct	ttc	ccc	ttc	aac	tgc	aca	tac	cct	cca	144
	Met	Ile	Ser	Glu	Gly	Gln	Pro	Phe	Pro	Phe	Asn	Cys	Thr	Tyr	Pro	Pro	
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10	gta	aca	aac	ggg	gca	gtg	aat	ctg	aca	tgg	cat	aga	aca	ccc	agt	aag	192
	Val	Thr	Asn	Gly	Ala	Val	Asn	Leu	Thr	Trp	His	Arg	Thr	Pro	Ser	Lys	
		50					55					60					
15	agc	cca	atc	tcc	atc	aac	aga	cac	gtt	aga	att	cac	cag	gac	cag	tcc	240
	Ser	Pro	Ile	Ser	Ile	Asn	Arg	His	Val	Arg	Ile	His	Gln	Asp	Gln	Ser	
	65					70				75						80	
20	tgg	att	ttg	ttt	ctt	ccg	ttg	gca	ttg	gag	gac	tca	ggc	atc	tat	caa	288
	Trp	Ile	Leu	Phe	Leu	Pro	Leu	Ala	Leu	Glu	Asp	Ser	Gly	Ile	Tyr	Gln	
				85						90					95		
25	tgt	gtt	ata	aag	gat	gcc	cac	agc	tgt	tac	cga	ata	gct	ata	aac	cta	336
	Cys	Val	Ile	Lys	Asp	Ala	His	Ser	Cys	Tyr	Arg	Ile	Ala	Ile	Asn	Leu	
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	Thr	Val	Phe	Arg	Lys	His	Trp	Cys	Asp	Ser	Ser	Asn	Glu	Glu	Ser	Ser	
			115				120						125				
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	Ile	Asn	Ser	Ser	Asp	Glu	Tyr	Gln	Gln	Trp	Leu	Pro	Ile	Gly	Lys	Ser	
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	145					150					155					160	
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	Ser	Ile	Lys	Trp	Tyr	Lys	Gly	Cys	Glu	Glu	Ile	Lys	Val	Ser	Lys	Lys	
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	Phe	Cys	Pro	Thr	Gly	Thr	Lys	Leu	Leu	Val	Asn	Asn	Ile	Asp	Val	Glu	
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	Asp	Ser	Gly	Ser	Tyr	Ala	Cys	Ser	Ala	Arg	Leu	Thr	His	Leu	Gly	Arg	
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	Ile	Phe	Thr	Val	Arg	Asn	Tyr	Ile	Ala	Val	Asn	Thr	Lys	Glu	Val	Gly	
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	225					230					235					240	
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	Glu	Val	Gln	Leu	Gly	Ser	Thr	Leu	Ile	Val	Asp	Cys	Asn	Ile	Thr	Asp	
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10	acc aat ctg tct ctg agg aat cac att ctg tac aca gtg aac ata aca Thr Asn Leu Ser Leu Arg Asn His Ile Leu Tyr Thr Val Asn Ile Thr 290 295 300	912		
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40	ctg tat gat gcc tat gtc tta tac ccc aag tac cca aga gaa agc cag Leu Tyr Asp Ala Tyr Val Leu Tyr Pro Lys Tyr Pro Arg Glu Ser Gln 385 390 395 400	1200		
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 5 Ile Phe Thr Val Arg Asn Tyr Ile Ala Val Asn Thr Lys Glu Val Gly  
 210 215 220  
 Ser Gly Gly Arg Ile Pro Asn Ile Thr Tyr Pro Lys Asn Asn Ser Ile  
 225 230 235 240  
 10 Glu Val Gln Leu Gly Ser Thr Leu Ile Val Asp Cys Asn Ile Thr Asp  
 245 250 255  
 Thr Lys Glu Asn Thr Asn Leu Arg Cys Trp Arg Val Asn Asn Thr Leu  
 260 265 270  
 15 Val Asp Asp Tyr Tyr Asn Asp Phe Lys Arg Ile Gln Glu Gly Ile Glu  
 275 280 285  
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 305 310 315 320  
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 325 330 335  
 Phe Arg Ala Tyr Leu Ile Gly Gly Leu Met Ala Phe Leu Leu Leu Ala  
 340 345 350  
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 Trp Tyr Arg Ser Thr Phe His Thr Ala Gln Ala Pro Asp Asp Glu Lys  
 370 375 380  
 Leu Tyr Asp Ala Tyr Val Leu Tyr Pro Lys Tyr Pro Arg Glu Ser Gln  
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